

0590
0124

O/P/E

CRF Problem Report

The Scientific and Technical Information Center (STIC) experienced a problem when processing the following computer readable form (CRF):

Application Serial Number: 09/915,181

Filing Date: 7/24/2001

Date Processed by STIC: 1/26/2002

STIC Contact: Mark Spencer, 703-308-4212

Nature of Problem:

The CRF (was):

- (circle one) Damaged or Unreadable for Unreadable, see attached
- Blank (no files on CRF) (see attached)
- Empty file (filename present, but no bytes in file) (see attached)
- Virus-infected. Virus name: _____ The STIC will not process the CRF.
- Not saved in ASCII text
- Sequence Listing was embedded in the file. According to Sequence Rules, submitted file should **only** be the Sequence Listing.
- Did not contain a Sequence Listing. (see attached sample)
- Other:

PLEASE USE THE CHECKER VERSION 3.1 PROGRAM TO REDUCE ERRORS.

SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service , or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

~~0590~~
0405

#9



OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/915,181A

DATE: 04/08/2002
TIME: 15:33:00

Input Set : A:\305-932610US.txt
Output Set: N:\CRF3\04082002\I915181A.raw

ENTERED

P. 6

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/915,181A

DATE: 04/08/2002
TIME: 15:33:00

Input Set : A:\305-932610US.txt
Output Set: N:\CRF3\04082002\I915181A.raw

79	atcctcatgg	ggatctcaaa	tggcgtggga	accctctctg	aatggtttg	tcccttcatt	1440
81	gttggtgc aa	tgacaaagca	caagaccgg	gaagaatggc	agaatgtgtt	cctcatagca	1500
83	gccctggtgc	actacagtgg	agtcatctc	tacggggct	ttgcttctgg	gaaaaaacag	1560
85	gactgggtg	atccagagaa	tctctctgag	gagaaaatgtg	aatcatatga	ccaagatgaa	1620
87	ttagccgagg	aaacagaact	caaccacgag	gctttcgta	gtcccagaaa	gaagatgtct	1680
89	tatggagcca	ccacccagaa	tttgtgagtc	cagaagacgg	atcggagaca	acagagagaa	1740
91	tccgccttcg	agggggagga	gccattatcc	taccagaatg	aaggaggactt	ttcagaaaca	1800
93	tcttaacgtg	catttcccc	tcagcttaca	accagaagtc	tccacacca	ttgctttcc	1860
95	cataccttgg	ccttcaggg	ggccaaatca	cagggaaaggg	ggagactaaa	tcaacaacag	1920
97	agaagaaaaa	tgccttcta	caaagatggg	cgtatggatc	ttggtctcag	ttaatttagat	1980
99	agttgtatcat	atttttttt	gggggggca	ttggcattt	gctgttgagc	cttctctcaa	2040
101	agaacaatt	tattcaggaa	aaaatggcta	gaagaataag	gagtggctt	ttgctcaaatt	2100
103	aaacactgaa	aaaatccctc	tttggcttgg	agaagagtac	atgggtgtt	ccaccccatc	2160
105	tccaaaggata	tccatgtaga	ggacaatctc	tgcaacctaa	tgaagggat	cactcatggg	2220
107	ggcccttgg	tgtgccaggt	gctttatgaa	catttttatt	taactccac	accctaataat	2280
109	agttatttta	cccattttac	aactaagaac	attaaatgac	tagttggcc	cacccaaggt	2340
111	tgtcctctca	gagccaaagc	tgagactggc	agatgaccag	gagttttagg	aaggaaggaa	2400
113	ggaaggaagg	aaggaaggaa	ggaaggaagg	aaggaaggaa	ggaagggttc	agttgagtgt	2460
115	agggtcattt	tcaatgacaa	aaacaaaaac	tggaaatcagt	tggtttgg	gtaattccat	2520
117	gttggtca	gggtgtgtc	atgcaaacgt	gtatgtgcgt	gtgtgtgt	ttgtgtgttt	2580
119	gnngtgnagn	nngnatnana	anaaaaan				2607
122	<210>	SEQ ID NO:	2				
123	<211>	LENGTH:	2607				
124	<212>	TYPE:	DNA				
125	<213>	ORGANISM:	Homo sapiens				
127	<220>	FEATURE:					
128	<221>	NAME/KEY:	misc_feature				
129	<223>	OTHER INFORMATION:	n is a, c, g, or t				
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135	taaaactttt	ggcccttcct	tcctcacttc	ttacggcatt	ctctaagcga	cccctagaat	120
137	gtttttttt	agctaccctg	tttgctcctc	cctctacggt	aactcgactc	actccttcct	180
139	tccggacacg	tctgttaggtc	tcgggctcgg	ggacacacgc	tgacgtcgac	gacaccgtag	240
141	gggttcgcca	tgttagtagcg	acagtaactca	ccggacccta	agacgtaaag	gaaaccctaa	300
143	gccacgttgg	aacctcaccg	gtaacaccctt	taccagttt	tatcgatgaca	catacaccta	360
145	ccctttggcc	tttaggtctg	tcgtgtcaaa	ttgaccctag	gtctctgcca	cccttccgc	420
147	ttaagagaat	aggtacctag	aaaaaaagacc	ccaatataac	actgtgttta	aggccaccg	480
149	aagtaaagg	tgttcaaaccg	acgattgtcc	cagaaaccctc	gacggtagaa	gaactgcagt	540
151	tgggacttgt	acaagtaggg	aaggcgccgg	tcccacgtaa	tgccgacaca	gtacacacac	600
153	tcctaaaacg	tcccagacca	cctcccacac	tggatgggtc	ggacggtgcc	ctacaccta	660
155	ttcacccctg	gaggggacct	ctcttcagca	gatcggttt	ggagaaaaac	accaaggata	720
157	cggccccgtc	agcaacgata	cggggaaacgt	cctcataacc	acgtcatgt	accgaccgg	780
159	agacggaaaa	tataaatgcc	ctacaaacct	taataaacc	tgtacaaaac	cgacgacgac	840
161	gtccgaatac	tcacaggctg	tcaagtgggt	tgttataaggt	tacttcttgc	ctggatgtat	900
163	ctctgttcat	atccctttcc	cggttgaac	cggtcagact	cgtttaagtt	gtgtggtacc	960
165	tcttccaaaa	agtgttaggaa	cggacagata	cggtaataac	accgtttgaa	aacatctcg	1020
167	accttggaa	taaacagagaa	ttattcagtc	ggacgaatga	aacttctcca	gaaacccaaa	1080
169	cgttattcat	tccacccaga	gaacagtgcg	cagggtgtgt	accactactg	ttagcaccat	1140
171	gggttaacc	ctgttgaccg	actaataat	tcttcggctt	tctaaaactg	gtgttgacga	1200

RAW SEQUENCE LISTING
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Input Set : A:\305-932610US.txt
Output Set: N:\CRF3\04082002\I915181A.raw

173	cagtctttct	agtacttaac	acctccgaaa	ccgtacacctc	gttggAACGA	ggaccaccaa	1260	
175	ccaaaagg	tatgtttcc	tcaccgatag	aggaaggacc	acgaacgaca	tcctaaatca	1320	
177	ccgaaacgtt	aaagtccaaa	gttacagttg	gtggacctgt	aacgagggtgc	tatacggtcg	1380	
179	taggagtacc	cctagagttt	accgcaccc	tggagagac	cttaccaa	aggggagtaa	1440	
181	caaccacgtt	actgtttcg	gttctggcc	cttcttac	ggagtatcg	1500		
183	cgggaccacg	tgatgtcacc	tcagtagaa	atgcccaga	aacgaagacc	ccttttgc	1560	
185	ctgacccgac	tagtctt	agagagactc	ctcttac	cttagtaact	ggttctactt	1620	
187	aatcggtcc	tttgtctga	gttgggtc	cggatt	cagggtctt	cttctacaga	1680	
189	ataccctcg	gttgggtctt	aacactccag	gtctctgc	tagcctctgt	tgtctctctt	1740	
191	aggcggaa	gc	cgtaatagg	atggtcttac	ttctcctgaa	aagtcttgt	1800	
193	agaattgcac	gtagaagg	agtcgaatgt	tggtctcag	aggtgtgg	aacgaaaagg	1860	
195	gtatggacc	ggaagg	ccgggttagt	gtccttccc	cctctgattt	agttgttgc	1920	
197	tcttctt	acggaagaat	gtttctaccc	gcatacctag	aaccagatc	aattaatcta	1980	
199	tcaactagta	taaaaaaaac	ccccccgtt	aaccgtaac	cgacaactcg	gaagagagtt	2040	
201	ttcttgtttaa	ataagtcc	cttacccat	cttcttattc	ctcaccaac	aacgagttta	2100	
203	tttgtgactt	ctttagggag	aaaccagacc	tcttctcatg	taccaccaac	ggtgggttag	2160	
205	agg	ttccttat	aggtacatct	cctgttagag	acgttggatt	acttccctta	gtgagtaccc	2220
207	ccgggaacca	acacgttca	cgaaatactt	gtaagaataa	attgaggg	tggattata	2280	
209	tcaataacat	gggtaaaatg	ttgattttg	taatttactg	atccaaccgg	gtgggttcca	2340	
211	acaggagagt	ctcggttcc	actctgacc	tctactggc	ctcaaaatcc	ttccttcctt	2400	
213	cttcc	ttccttc	ccttccttcc	ttccttc	ccttcccaag	tcaactcaca	2460	
215	tcccagtaaa	agttactgtt	tttgg	tttgc	accttagtca	accaaacc	cattaaggta	2520
217	caaaccagg	cccacacacg	tacgttgc	catac	acacacaca	acacacacaa	2580	
219	cncacantcn	nncntantnt	tnttttn				2607	

222 <210> SEQ ID NO: 3

223 <211> LENGTH: 850

224 <212> TYPE: PRT

225 <213> ORGANISM: Homo sapiens

227 <400> SEQUENCE: 3

229	Cys	Ala	Leu	Lys	Pro	Pro	Phe	Lys	Met	Pro	Phe	Asn	Ala	Phe	Asp	Thr
230	1				5				10				15			
232	Phe	Lys	Glu	Lys	Ile	Leu	Lys	Pro	Gly	Lys	Glu	Gly	Val	Lys	Asn	Ala
233					20				25				30			
235	Val	Gly	Asp	Ser	Leu	Gly	Ile	Leu	Gln	Arg	Lys	Leu	Asp	Gly	Thr	Asn
236					35				40				45			
238	Glu	Glu	Gly	Asp	Ala	Ile	Glu	Leu	Ser	Glu	Glu	Gly	Arg	Pro	Val	Gln
239					50				55				60			
241	Thr	Ser	Arg	Ala	Arg	Ala	Pro	Val	Cys	Asp	Cys	Ser	Cys	Cys	Gly	Ile
242					65				70				75			80
244	Pro	Lys	Arg	Tyr	Ile	Ile	Ala	Val	Met	Ser	Gly	Leu	Gly	Phe	Cys	Ile
245									85				90			95
247	Ser	Phe	Gly	Ile	Arg	Cys	Asn	Leu	Gly	Val	Ala	Ile	Val	Glu	Met	Val
248									100				105			110
250	Asn	Asn	Ser	Thr	Val	Tyr	Val	Asp	Gly	Lys	Pro	Glu	Ile	Gln	Thr	Ala
251									115				120			125
253	Gln	Phe	Asn	Trp	Asp	Pro	Glu	Thr	Val	Gly	Arg	Ala	Asn	Ser	Leu	Ile
254									130				135			140
256	His	Gly	Ser	Phe	Phe	Trp	Gly	Tyr	Ile	Val	Thr	Gln	Ile	Pro	Gly	Gly
257									145				150			160
													155			

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/915,181A

DATE: 04/08/2002
 TIME: 15:33:00

Input Set : A:\305-932610US.txt
 Output Set: N:\CRF3\04082002\I915181A.raw

259 Phe Ile Ser Asn Lys Phe Ala Ala Asn Arg Val Phe Gly Ala Ala Ile
 260 165 170 175
 262 Phe Leu Thr Ser Thr Leu Asn Met Phe Ile Pro Ser Ala Ala Arg Val
 263 180 185 190
 265 His Tyr Gly Cys Val Met Cys Val Arg Ile Leu Gln Gly Leu Val Glu
 266 195 200 205
 268 Gly Val Thr Tyr Pro Ala Cys His Gly Met Trp Ser Lys Trp Ala Pro
 269 210 215 220
 271 Pro Leu Glu Arg Ser Arg Leu Ala Thr Thr Ser Phe Cys Gly Ser Tyr
 272 225 230 235 240
 274 Ala Gly Ala Val Val Ala Met Pro Leu Ala Gly Val Leu Val Gln Tyr
 275 245 250 255
 277 Ile Gly Trp Ala Ser Ala Phe Tyr Ile Tyr Gly Met Phe Gly Ile Ile
 278 260 265 270
 280 Trp Tyr Met Phe Trp Leu Leu Gln Ala Tyr Glu Cys Pro Ala Val
 281 275 280 285
 283 His Pro Thr Ile Ser Asn Glu Glu Arg Thr Tyr Ile Glu Thr Ser Ile
 284 290 295 300
 286 Gly Glu Gly Ala Asn Leu Ala Ser Leu Ser Lys Phe Asn Thr Pro Trp
 287 305 310 315 320
 289 Arg Arg Phe Phe Thr Ser Leu Pro Val Tyr Ala Ile Ile Val Ala Asn
 290 325 330 335
 292 Phe Cys Arg Ser Trp Thr Phe Tyr Leu Leu Ile Ser Gln Pro Ala
 293 340 345 350
 295 Tyr Phe Glu Glu Val Phe Gly Phe Ala Ile Ser Lys Val Gly Leu Leu
 296 355 360 365
 298 Ser Ala Val Pro His Met Val Met Thr Ile Val Val Pro Ile Gly Gly
 299 370 375 380
 301 Gln Leu Ala Asp Tyr Leu Arg Ser Arg Lys Ile Leu Thr Thr Ala
 302 385 390 395 400
 304 Val Arg Lys Ile Met Asn Cys Gly Gly Phe Gly Met Glu Ala Thr Leu
 305 405 410 415
 307 Leu Leu Val Val Gly Phe Ser His Thr Lys Gly Val Ala Ile Ser Phe
 308 420 425 430
 310 Leu Val Leu Ala Val Gly Phe Ser Gly Phe Ala Ile Ser Gly Phe Asn
 311 435 440 445
 313 Val Asn His Leu Asp Ile Ala Pro Arg Tyr Ala Ser Ile Leu Met Gly
 314 450 455 460
 316 Ile Ser Asn Gly Val Gly Thr Leu Ser Gly Met Val Cys Pro Leu Ile
 317 465 470 475 480
 319 Val Gly Ala Met Thr Lys His Lys Thr Arg Glu Glu Trp Gln Asn Val
 320 485 490 495
 322 Phe Leu Ile Ala Ala Leu Val His Tyr Ser Gly Val Ile Phe Tyr Gly
 323 500 505 510
 325 Val Phe Ala Ser Gly Glu Lys Gln Asp Trp Ala Asp Pro Glu Asn Leu
 326 515 520 525
 328 Ser Glu Glu Lys Cys Gly Ile Ile Asp Gln Asp Glu Leu Ala Glu Glu
 329 530 535 540
 331 Thr Glu Leu Asn His Glu Ala Phe Val Ser Pro Arg Lys Lys Met Ser

RAW SEQUENCE LISTING
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Input Set : A:\305-932610US.txt
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332	545	550	555	560													
334	Tyr	Gly	Ala	Thr	Thr	Gln	Asn	Cys	Glu	Val	Gln	Lys	Thr	Asp	Arg	Arg	
335						565				570					575		
337	Gln	Gln	Arg	Glu	Ser	Ala	Phe	Glu	Gly	Glu	Glu	Pro	Leu	Ser	Tyr	Gln	
338						580				585					590		
340	Asn	Glu	Glu	Asp	Phe	Ser	Glu	Thr	Ser	Arg	Ala	Ser	Ser	Pro	Gln	Leu	
341						595				600					605		
343	Thr	Thr	Arg	Ser	Leu	His	Thr	His	Cys	Phe	Ser	His	Thr	Leu	Ala	Phe	
344						610				615					620		
346	Gln	Gly	Ala	Lys	Ser	Gln	Glu	Arg	Gly	Arg	Leu	Asn	Gln	Gln	Gln	Arg	
347	625					630					635					640	
349	Arg	Lys	Met	Pro	Ser	Tyr	Lys	Asp	Gly	Arg	Met	Asp	Leu	Gly	Leu	Ser	
350						645					650					655	
352	Leu	Asp	Ser	Ser	Tyr	Phe	Phe	Trp	Gly	Gly	Gln	Leu	Gly	Ile	Gly	Cys	
353						660				665					670		
355	Ala	Phe	Ser	Gln	Lys	Asn	Asn	Leu	Phe	Arg	Lys	Lys	Trp	Leu	Glu	Glu	
356						675				680					685		
358	Gly	Val	Ala	Cys	Cys	Ser	Asn	Lys	His	Arg	Asn	Pro	Ser	Leu	Val	Trp	
359						690				695					700		
361	Arg	Arg	Val	His	Gly	Cys	His	Pro	Ile	Ser	Lys	Asp	Ile	His	Val		
362	705				710					715					720		
364	Glu	Asp	Asn	Leu	Cys	Asn	Leu	Met	Lys	Gly	Ile	Thr	His	Gly	Gly	Pro	
365						725				730					735		
367	Trp	Leu	Cys	Gln	Val	Leu	Tyr	Glu	His	Ser	Tyr	Leu	Thr	Pro	Thr	Pro	
368						740				745					750		
370	Tyr	Ser	Tyr	Cys	Thr	His	Phe	Thr	Thr	Lys	Asn	Ile	Lys	Leu	Gly	Trp	
371						755				760					765		
373	Pro	Thr	Gln	Gly	Cys	Pro	Leu	Arg	Ala	Lys	Ala	Glu	Thr	Gly	Arg	Pro	
374						770				775					780		
376	Gly	Val	Leu	Gly	Arg	Lys	Glu	Gly	Arg	Lys	Glu	Gly	Arg	Lys	Glu	Gly	
377	785				790					795					800		
379	Arg	Lys	Glu	Gly	Arg	Lys	Gly	Ser	Val	Glu	Cys	Arg	Val	Ile	Phe	Asn	
380						805				810					815		
382	Asp	Lys	Asn	Lys	Asn	Trp	Asn	Gln	Leu	Val	Cys	Gly	Phe	His	Val	Trp	
383						820				825					830		
385	Ser	Arg	Val	Cys	Ala	Cys	Lys	Arg	Val	Cys	Ala	Cys	Val	Cys	Val	Cys	
386						835				840					845		
388	Val	Phe															
389		850															
391	<210>	SEQ ID NO:	4														
392	<211>	LENGTH:	582														
393	<212>	TYPE:	PRT														
394	<213>	ORGANISM:	Rattus rattus														
396	<400>	SEQUENCE:	4														
398	Met	Glu	Ser	Val	Lys	Gln	Arg	Ile	Leu	Ala	Pro	Gly	Lys	Glu	Gly	Ile	
399	1				5				10					15			
401	Lys	Asn	Phe	Ala	Gly	Lys	Ser	Leu	Gly	Gln	Ile	Tyr	Arg	Val	Leu	Glu	
402						20				25					30		
404	Lys	Lys	Gln	Asp	Asn	Arg	Glu	Thr	Ile	Glu	Leu	Thr	Glu	Asp	Gly	Lys	

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/915,181A

DATE: 04/08/2002
TIME: 15:33:01

Input Set : A:\305-932610US.txt
Output Set: N:\CRF3\04082002\I915181A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 2582,2587,2590,2591,2592,2594,2597,2599,2602,2607
Seq#:2; N Pos. 2582,2587,2590,2591,2592,2594,2597,2599,2602,2607
Seq#:9; N Pos. 1,2,3,5,9,10,11,12,13,14

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.
Seq#:9,10,11